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                 Simultaneous left and right truncation added to ANABSTR
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        OCT 28
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                MSDS-CCOHS file reloaded
        NOV 24
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        DEC 08
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        DEC 08
                 IMS file names changed
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         DEC 09
                 in REGISTRY
                 STN Entry Date available for display in REGISTRY and CA/CAplus
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         DEC 09
                 DGENE: Two new display fields added
         DEC 17
NEWS 21
                 BIOTECHNO no longer updated
NEWS 22
         DEC 18
                 CROPU no longer updated; subscriber discount no longer
        DEC 19
NEWS 23
                 available
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              AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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=> s non-articular cartilage and repain O NON-ARTICULAR CARTILAGE AND REPAIN

=> s non-articular cartilage and repair O NON-ARTICULAR CARTILAGE AND REPAIR L2

=> s osteogenic protein 2536 OSTEOGENIC PROTEIN

=> s non-articular cartilage 20 NON-ARTICULAR CARTILAGE

=> s 14 and replacement 7 L4 AND REPLACEMENT

=> d 15 ti abs ibib tot

ANSWER 1 OF 7 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN L_5

Novel methods for repairing a defect in mammalian nonarticular cartilage TTtissue or ligaments using an osteogenic protein in a biocompatible, bioresorbable carrier

DGENE AN AAY92442 Protein

The specification concerns a novel method for repairing a defect in a AΒ non-articular cartilage tissue or a ligament of a mammal, which comprises providing an osteogenic protein in a biocompatible, bioresorbable carrier to the defect locus to induce the formation of functional replacement cartilage. The methods and implants, promote chondrogenesis and are useful for repairing or correcting a defect in a non-articular cartilage tissue or a ligament of a mammal, e.g. cleft larynx, oedema of the glottis, ulceration of the larynx caused by syphilis, tuberculosis or malignancy, defects resulting from mechanical trauma to the larynx or trachea (including tracheotomy and laryngotomy), laryngeal cancer, and defects of the ear, nose, ribs, invertebral discs, and interarticular menisci.

ACCESSION NUMBER: AAY92442 Protein **DGENE**

Novel methods for repairing a defect in mammalian TITLE: nonarticular cartilage tissue or ligaments using an

osteogenic protein in a biocompatible, bioresorbable carrier

Vukicevic S; Katic V; Sampath K T INVENTOR:

PATENT ASSIGNEE: (STYC) STRYKER CORP.

WO 2000020021 A1 20000413 65p PATENT INFO:

APPLICATION INFO: WO 1999-US17222 19990730 PRIORITY INFO: US 1998-103161 19981006

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-317644 [27] CROSS REFERENCES: N-PSDB: AAA09361

DESCRIPTION: Human osteogenic protein 1 (OP-1).

L5 ANSWER 2 OF 7 DGENE COPYRIGHT 2003 THOMSON DERWENT ON STN

Novel methods for repairing a defect in mammalian nonarticular cartilage tissue or ligaments using an osteogenic protein in a biocompatible, bioresorbable carrier

AN AAY92441 protein DGENE

Generic Sequence 10 contains generic sequence 9 and an N-terminal AΒ extension. Generic sequence 9 is a composite amino acid sequence of the following proteins: human OP-1 to -3, human BMP-2 to -6, -9 to -11, Drosophila 60A, Xenopus Vg-1, sea urchin UNIVIN, human CDMP-1 to -3, human and mouse GDF-1, chicken DORSALIN, DPP, Drosophila Screw, mouse NODAL, mouse GDF-8 to -11, human GDF-8, -11, human BMP-15 and rat BMP3b. The specification concerns a novel method for repairing a defect in a non-articular cartilage tissue or a ligament of a mammal, which comprises providing an osteogenic protein in a biocompatible, bioresorbable carrier to the defect locus to induce the formation of functional replacement cartilage. The methods and implants, promote chondrogenesis and are useful for repairing or correcting a defect in a non-articular cartilage tissue or a ligament of a mammal, e.g. cleft larynx, oedema of the glottis, ulceration of the larynx caused by syphilis, tuberculosis or malignancy, defects resulting from mechanical trauma to the larynx or trachea (including tracheotomy and laryngotomy), laryngeal cancer, and defects of the ear, nose, ribs, invertebral discs, and

interarticular menisci.
ACCESSION NUMBER: AAY92441 protein DGENE

TITLE: Novel methods for repairing a defect in mammalian

nonarticular cartilage tissue or ligaments using an

osteogenic protein in a biocompatible, bioresorbable carrier

INVENTOR: Vukicevic S; Katic V; Sampath K T

PATENT ASSIGNEE: (STYC) STRYKER CORP.

PATENT INFO: WO 2000020021 Al 20000413 65p

APPLICATION INFO: WO 1999-US17222 19990730 PRIORITY INFO: US 1998-103161 19981006

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-317644 [27]

DESCRIPTION: Generic sequence 10, derived from osteogenic protein family

members.

L5 ANSWER 3 OF 7 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN

Novel methods for repairing a defect in mammalian nonarticular cartilage tissue or ligaments using an osteogenic protein in a biocompatible, bioresorbable carrier

AN AAY92440 protein DGENE

Generic Sequence 9 is a composite amino acid sequence of the following proteins: human OP-1 to -3, human BMP-2 to -6, -9 to -11, Drosophila 60A, Xenopus Vg-1, sea urchin UNIVIN, human CDMP-1 to -3, human and mouse GDF-1, chicken DORSALIN, DPP, Drosophila Screw, mouse NODAL, mouse GDF-8 to -11, human GDF-8, -11, human BMP-15 and rat BMP3b. The specification concerns a novel method for repairing a defect in a non-articular cartilage tissue or a ligament of a mammal, which comprises providing an osteogenic protein in a biocompatible, bioresorbable carrier to the defect locus to induce the formation of functional replacement cartilage. The methods and implants, promote chondrogenesis and are useful for repairing or correcting a defect in a non-articular cartilage tissue

or a ligament of a mammal, e.g. cleft larynx, oedema of the glottis, ulceration of the larynx caused by syphilis, tuberculosis or malignancy, defects resulting from mechanical trauma to the larynx or trachea (including tracheotomy and laryngotomy), laryngeal cancer, and defects of

the ear, nose, ribs, invertebral discs, and interarticular menisci.

DGENE ACCESSION NUMBER: AAY92440 protein

Novel methods for repairing a defect in mammalian TITLE:

nonarticular cartilage tissue or ligaments using an

osteogenic protein in a biocompatible, bioresorbable carrier

Vukicevic S; Katic V; Sampath K T INVENTOR:

PATENT ASSIGNEE: (STYC) STRYKER CORP.

PATENT INFO: WO 2000020021 A1 20000413 65p

APPLICATION INFO: WO 1999-US17222 19990730 19981006 PRIORITY INFO: US 1998-103161

DOCUMENT TYPE: Patent English LANGUAGE:

2000-317644 [27] OTHER SOURCE:

Generic sequence 9, derived from osteogenic protein family DESCRIPTION:

members.

ANSWER 4 OF 7 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN L5

Novel methods for repairing a defect in mammalian nonarticular cartilage TI tissue or ligaments using an osteogenic protein in a biocompatible, bioresorbable carrier

DGENE ANAAY92439 protein

Generic Sequence 8 contains generic sequence 7 (AAY92438), which AB accomodates the homologies shared among osteogenic protein family members, including OP-1, OP-2, OP-3, BMP-2 to -6, 60A, DPP, Vg-1, Vgr-1 and GDF, as well as an N-terminal addition of 5 residues. The specification concerns a novel method for repairing a defect in a non-articular cartilage tissue or a ligament of a mammal, which comprises providing an osteogenic protein in a biocompatible, bioresorbable carrier to the defect locus to induce the formation of functional replacement cartilage. The methods and implants, promote chondrogenesis and are useful for repairing or correcting a defect in a non-articular cartilage tissue or a ligament of a mammal, e.g. cleft larynx,

oedema of the glottis, ulceration of the larynx caused by syphilis, tuberculosis or malignancy, defects resulting from mechanical trauma to the larynx or trachea (including tracheotomy and laryngotomy), laryngeal cancer, and defects of the ear, nose, ribs, invertebral discs, and interarticular menisci.

ACCESSION NUMBER: AAY92439 protein

Novel methods for repairing a defect in mammalian TITLE:

nonarticular cartilage tissue or ligaments using an

osteogenic protein in a biocompatible, bioresorbable carrier

Vukicevic S; Katic V; Sampath K T INVENTOR:

(STYC) STRYKER CORP. PATENT ASSIGNEE:

WO 2000020021 Al 20000413 65p PATENT INFO:

APPLICATION INFO: WO 1999-US17222 19990730 PRIORITY INFO: US 1998-103161 19981006

Patent DOCUMENT TYPE: English LANGUAGE:

2000-317644 [27] OTHER SOURCE:

Generic sequence 8, derived from osteogenic protein family DESCRIPTION:

members.

ANSWER 5 OF 7 DGENE COPYRIGHT 2003 THOMSON DERWENT On STN L5

Novel methods for repairing a defect in mammalian nonarticular cartilage ΤI tissue or ligaments using an osteogenic protein in a biocompatible, bioresorbable carrier

ANAAY92438 protein DGENE

Generic Sequence 7 accomodates the homologies shared among osteogenic AB protein family members, including OP-1, OP-2, OP-3, BMP-2 to -6, 60A,

DPP, Vg-1, Vgr-1 and GDF. The specification concerns a novel method for repairing a defect in a non-articular

cartilage tissue or a ligament of a mammal, which comprises providing an osteogenic protein in a biocompatible, bioresorbable carrier to the defect locus to induce the formation of functional replacement cartilage. The methods and implants, promote

chondrogenesis and are useful for repairing or correcting a defect in a non-articular cartilage tissue or a ligament

of a mammal, e.g. cleft larynx, oedema of the glottis, ulceration of the larynx caused by syphilis, tuberculosis or malignancy, defects resulting from mechanical trauma to the larynx or trachea (including tracheotomy and laryngotomy), laryngeal cancer, and defects of the ear, nose, ribs, invertebral discs, and interarticular menisci.

ACCESSION NUMBER: AAY92438 protein DGENE

TITLE: Novel methods for repairing a defect in mammalian

nonarticular cartilage tissue or ligaments using an

osteogenic protein in a biocompatible, bioresorbable carrier

INVENTOR: Vukicevic S; Katic V; Sampath K T

PATENT ASSIGNEE: (STYC) STRYKER CORP.

PATENT INFO: WO 2000020021 A1 20000413 65p

APPLICATION INFO: WO 1999-US17222 19990730 PRIORITY INFO: US 1998-103161 19981006

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-317644 [27]

DESCRIPTION: Generic sequence 7, derived from osteogenic protein family

members.

L5 ANSWER 6 OF 7 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN

Novel methods for repairing a defect in mammalian nonarticular cartilage tissue or ligaments using an osteogenic protein in a biocompatible, bioresorbable carrier

AN AAY92437 protein DGENE

AB OPX defines the seven-cysteine skeleton of several OP-1 and OP-2 variants. Each Xaa is chosen from the residues occuring at the corresponding position in the C-terminal sequence of mouse or human OP-1 or OP-2. The specification concerns a novel method for repairing a defect in a non-articular cartilage tissue or a

ligament of a mammal, which comprises providing an osteogenic protein in a biocompatible, bioresorbable carrier to the defect locus to induce the formation of functional replacement cartilage. The methods and implants, promote chondrogenesis and are useful for repairing or correcting a defect in a non-articular

cartilage tissue or a ligament of a mammal, e.g. cleft larynx, oedema of the glottis, ulceration of the larynx caused by syphilis, tuberculosis or malignancy, defects resulting from mechanical trauma to the larynx or trachea (including tracheotomy and laryngotomy), laryngeal cancer, and defects of the ear, nose, ribs, invertebral discs, and

interarticular menisci.

ACCESSION NUMBER: AAY92437 protein DGENE

TITLE: Novel methods for repairing a defect in mammalian

nonarticular cartilage tissue or ligaments using an

osteogenic protein in a biocompatible, bioresorbable carrier

INVENTOR: Vukicevic S; Katic V; Sampath K T

PATENT ASSIGNEE: (STYC) STRYKER CORP.

PATENT INFO: WO 2000020021 Al 20000413 65p

APPLICATION INFO: WO 1999-US17222 19990730 PRIORITY INFO: US 1998-103161 19981006

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-317644 [27]

DESCRIPTION: Generic OPX, seven-cysteine skeleton.

Novel methods for repairing a defect in mammalian nonarticular cartilage TI tissue or ligaments using an osteogenic protein in a biocompatible, bioresorbable carrier DGENE AAA09361 cDNA AΝ The specification concerns a novel method for repairing a defect in a AΒ non-articular cartilage tissue or a ligament of a mammal, which comprises providing an osteogenic protein in a biocompatible, bioresorbable carrier to the defect locus to induce the formation of functional replacement cartilage. The methods and implants, promote chondrogenesis and are useful for repairing or correcting a defect in a non-articular cartilage tissue or a ligament of a mammal, e.g. cleft larynx, oedema of the glottis, ulceration of the larynx caused by syphilis, tuberculosis or malignancy, defects resulting from mechanical trauma to the larynx or trachea (including tracheotomy and laryngotomy), laryngeal cancer, and defects of the ear, nose, ribs, invertebral discs, and interarticular menisci. DGENE ACCESSION NUMBER: AAA09361 cDNA Novel methods for repairing a defect in mammalian TITLE: nonarticular cartilage tissue or ligaments using an osteogenic protein in a biocompatible, bioresorbable carrier Vukicevic S; Katic V; Sampath K T INVENTOR: (STYC) STRYKER CORP. PATENT ASSIGNEE: PATENT INFO: WO 2000020021 A1 20000413 65p APPLICATION INFO: WO 1999-US17222 19990730 19981006 PRIORITY INFO: US 1998-103161 DOCUMENT TYPE: Patent English LANGUAGE: 2000-317644 [27] OTHER SOURCE: CROSS REFERENCES: P-PSDB: AAY92442 Human osteogenic protein 1 (OP-1) coding sequence. DESCRIPTION: => d his (FILE 'HOME' ENTERED AT 16:43:47 ON 19 DEC 2003) FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS' ENTERED AT 16:44:01 ON 19 DEC 2003 O S NON-ARTICULAR CARTILAGE AND REPAIN L1 O S NON-ARTICULAR CARTILAGE AND REPAIR L22536 S OSTEOGENIC PROTEIN L3 20 S NON-ARTICULAR CARTILAGE L47 S L4 AND REPLACEMENT L5=> s cartilage defect or defect locus 33675 CARTILAGE DEFECT OR DEFECT LOCUS => s 16 and replacement 400 L6 AND REPLACEMENT \Rightarrow s 17 and 13 32 L7 AND L3 L8 => d 18 ti abs ibib tot ANSWER 1 OF 32 USPATFULL on STN L8 Bone morphogenic protein polynucleotides, polypeptides, and antibodies TIThe present invention relates to novel human BMP polypeptides and AB isolated nucleic acids containing the coding regions of the genes encoding such polypeptides. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human BMP

polypeptides. The invention further relates to diagnostic and

therapeutic methods useful for diagnosing and treating disorders related

to these novel human BMP polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2003:318756 USPATFULL ACCESSION NUMBER:

Bone morphogenic protein polynucleotides, polypeptides, TITLE:

and antibodies

Young, Paul E., Gaithersburg, MD, UNITED STATES INVENTOR(S):

Ruben, Steven M., Brookeville, MD, UNITED STATES

KIND DATE PATENT INFORMATION: US 2003224501 A1 20031204 US 2003-366345 A1 20030214 (10)

APPLICATION INFO.:

Continuation-in-part of Ser. No. US 2003-345236, filed RELATED APPLN. INFO.: on 16 Jan 2003, PENDING Continuation-in-part of Ser. No. US 2001-809269, filed on 16 Mar 2001, ABANDONED

> Continuation-in-part of Ser. No. WO 2001-US9229, filed on 23 Mar 2001, PENDING

NUMBER DATE _____ PRIORITY INFORMATION: US 2002-356749P 20020215 (60) US 2000-190067P 20000317 (60) US 2002-348621P 20020117 (60) US 2002-349356P 20020122 (60) US 2002-351520P 20020128 (60) US 2002-354265P 20020206 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 42 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 23 Drawing Page(s)

LINE COUNT: 16963

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 2 OF 32 USPATFULL on STN

Human homolog of crossveinless materials and methods ΤI

AΒ The invention provides polynucleotides and polypeptides encoded by such polynucleotides and mutants or variants thereof that correspond to a human secreted crossveinless-homolog polypeptide. Other aspects of the invention include vectors containing processes for producing human secreted crossveinless-homolog polypeptides, and antibodies specific for such polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:276683 USPATFULL

Human homolog of crossveinless materials and methods TITLE: Binnerts, Minke, San Francisco, CA, UNITED STATES INVENTOR(S):

Tang, Y. Tom, San Jose, CA, UNITED STATES Asundi, Vinod, Foster City, CA, UNITED STATES

Rupp, Fabio, Sunnyvale, CA, UNITED STATES

KIND DATE NUMBER -----US 2003194708 A1 20031016 PATENT INFORMATION: US 2002-120018 A1 20020410 (10) APPLICATION INFO.:

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LI-HSIEN RIN LAURES, HYSEQ, INC., 670 ALMANOR AVENUE, LEGAL REPRESENTATIVE:

SUNNYVALE, CA, 94085

NUMBER OF CLAIMS: 25 EXEMPLARY CLAIM:

1

LINE COUNT:

6180

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 3 OF 32 USPATFULL on STN L8

HUMAN SDF-5 PROTEIN AND COMPOSITIONS TI

Purified human SDF-5 proteins and processes for producing them are AΒ disclosed. DNA molecules encoding the human SDF-5 proteins are also disclosed. The proteins may be used in regulating the binding of Wnt genes to their receptor. In preferred embodiments, the proteins may be used for inducing formation, growth, differentiation, proliferation and/or maintenance of chondrocytes and/or cartilage tissue, and for other tissue repair, such as pancreatic tissue repair.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:251069 USPATFULL

TITLE:

HUMAN SDF-5 PROTEIN AND COMPOSITIONS

INVENTOR(S):

LAVALLIE, EDWARD R., TEWKSBURY, MA, UNITED STATES

RACIE, LISA A., ACTON, MA, UNITED STATES

NUMBER KIND DATE ______ PATENT INFORMATION: US 2003175855 A1 20030918 US 1997-949904 A1 19971015 (8) APPLICATION INFO.:

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 1997-848439, filed

on 8 May 1997, ABANDONED Continuation-in-part of Ser. No. US 1997-796153, filed on 6 Feb 1997, ABANDONED

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE:

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP,

1300 I STREET, NW, WASHINGTON, DC, 20005

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

LINE COUNT: 2206

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 4 OF 32 USPATFULL on STN

METHODS AND COMPOSITIONS FOR ENHANCING COGNITIVE FUNCTION USING ΤI MORPHOGENIC PROTEINS

Disclosed are methods and compositions for protecting cognitive function AΒ in a mammal, particularly a human, subject to brain tissue damage, by administering a morphogen or a nucleic acid encoding a morphogen to the mammal. The methods and compositions can be used to reduce memory dysfunction and/or to provide a neuroprotective effect in subjects at risk of memory dysfunction resulting from mechanical or chemical trauma, neuropathies, neurodegenerative diseases, or oxygen or glucose deprivation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:243804 USPATFULL

TITLE:

METHODS AND COMPOSITIONS FOR ENHANCING COGNITIVE

FUNCTION USING MORPHOGENIC PROTEINS

INVENTOR(S):

CHARETTE, MARC F., NEEDHAM, MA, UNITED STATES

NUMBER KIND DATE ______ US 2003170213 A1 20030911 PATENT INFORMATION: A1 19980123 (9) US 1998-12846 APPLICATION INFO.: DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: ROPES & GRAY LLP, ONE INTERNATIONAL PLACE, BOSTON, MA,

02110-2624

25

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

4 Drawing Page(s)

2687 LINE COUNT: CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 5 OF 32 USPATFULL on STN L8

ΤI

AB

METHODS FOR EVALUATING TISSUE MORPHOGENESIS AND ACTIVITY The present invention is based on the discovery that a true tissue morphogen such as OP-1 provided systemically, alone in its mature dimeric form, or as part of a soluble complex, can induce new replacement tissue regeneration at a localized, permissive defect site distal to the site of administration. Specifically, systemically administered protein is sufficient to induce formation of new functional replacement tissue, sufficient to repair a local defect in a tissue, including skeletal or orthopedic tissues, liver, pancreas, lung, cardiac, renal, uterine, intestinal, ___ tissue. (As used herein, "orthopedic" or gastrointestinal "skeletal" or "joint" or "chondrogenic" tissue is understood to encompass the skeletal and skeletal joint tissues: bone, cartilage, tendon, ligament, and synovial membrane tissues.) It further has been discovered that a single injection of morphogenic protein is sufficient to induce the desired biological effect, and that administration is not time-sensitive, provided mesenchymal progenitor cells are accessible to the defect site. That is, morphogenic protein can be provided to an individual having a local permissive defect site, shortly after creation of the defect, or at some significant time later, including, without limitation, after the initiation of fibrotic tissue formation. Thus, means now are available for enhancing restoration of tissue function and/or repair or regeneration of functional replacement tissue by systemically administering morphogenic protein, at times significantly after creation of the defect. The methods and formulations can be used to repair local defects without requiring surgical intervention; can enhance the rate and quality of new replacement tissue formation, particularly in compromised individuals with a reduced capacity to undergo spontaneous healing, and can be used to induce new tissue formation even after the initiation of fibrosis at the defect site. This discovery is disclosed in copending U.S. patent application (Attorney Docket CRP-124, 2054/94) filed on even date herewith, the disclosure of which is incorporated herein by reference.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2003:160071 USPATFULL ACCESSION NUMBER:

METHODS FOR EVALUATING TISSUE MORPHOGENESIS AND TITLE:

ACTIVITY

SAMPATH, KUBER T., HOLLISTON, MA, UNITED STATES INVENTOR(S):

COHEN, CHARLES M., WESTON, MA, UNITED STATES

·	NUMBER	KIND	DATE		
		-			
PATENT INFORMATION:	US 2003109686	A1	20030612		
APPLICATION INFO.:	US 2000-423943	A1	20000308	(9)	
	WO 1998-US10909		19980529		
DOCUMENT TYPE:	Utility				
FILE SEGMENT:	APPLICATION		*		
LEGAL REPRESENTATIVE:	ROPES & GRAY, ONE	INTER	NATIONAL	PLACE,	Ε

BOSTON, MA,

02110-2624

122 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 5 Drawing Page(s)

LINE COUNT: 2922

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 6 OF 32 USPATFULL on STN $_{\text{L8}}$

Manufacture of autogenous replacement body parts TI

Disclosed are matrix materials, methods, and devices for manufacture in AR

vivo of autogenous replacement body parts comprising plural distinct tissues. In one embodiment, the replacement body part is a skeletal joint and the new plural distinct tissues include bone and articular cartilage.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:92732 USPATFULL

TITLE:

Manufacture of autogenous replacement body

parts

INVENTOR(S):

Khouri, Roger K., St. Louis, MO, UNITED STATES Sampath, Kuber T., Medway, MA, UNITED STATES Rueger, David C., Hopkinton, MA, UNITED STATES

APPLICATION INFO.:
RELATED APPLN. INFO.:

US 2002-83825 A1 20020227 (10)

Continuation of Ser. No. US 2000-547601, filed on 13

Apr 2000, ABANDONED Continuation of Ser. No. US

1995-459129, filed on 2 Jun 1995, GRANTED, Pat. No. US

6110482 Continuation-in-part of Ser. No. US

1994-253398, filed on 3 Jun 1994, GRANTED, Pat. No. US

5906827 Utility

DOCUMENT TYPE: FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

TESTA, HURWITZ & THIBEAULT, LLP, HIGH STREET TOWER, 125

HIGH STREET, BOSTON, MA, 02110

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

33

NUMBER OF DRAWINGS:

3 Drawing Page(s)

LINE COUNT:

1634

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 7 OF 32 USPATFULL on STN

TI COMPOSITIONS FOR MORPHOGEN-INDUCED OSTEOGENESIS

AB Disclosed herein are improved osteogenic devices and methods of use thereof for repair of bone and cartilage defects.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:45274 USPATFULL

TITLE: INVENTOR(S): COMPOSITIONS FOR MORPHOGEN-INDUCED OSTEOGENESIS RUEGER, DAVID C., SOUTHBOROUGH, MA, UNITED STATES TUCKER, MARJORIE M., HOLLISTON, MA, UNITED STATES

,	NUMBER	KIND	DATE	
		-		
PATENT INFORMATION:	US 2003032586	A1	20030213	
APPLICATION INFO.:	US 1998-39107	A1	19980314	(9)

NUMBER DATE

PRIORITY INFORMATION:

US 1997-46589P

19970515 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

JAMES F. HALEY, FISH & NEAVE, 1251 AVENUE OF THE

AMERICAS, NEW YORK, NY, 100201104

NUMBER OF CLAIMS:

35

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

1

10 Decem

19 Drawing Page(s)

LINE COUNT:

1652

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 8 OF 32 USPATFULL on STN

TI Matrix-free osteogenic devices, implants and methods of use thereof

Provided herein are methods for inducing bone formation in a mammal AΒ sufficient to fill a defect defining a void, wherein osteogenic protein is provided alone or dispersed in a biocompatible non-rigid, amorphous carrier having no defined surfaces. The methods and devices provide injectable formulations for filling critical size defects, as well as for accelerating the rate and enhancing the quality of bone formation in non-critical size defects.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2002:172320 USPATFULL

TITLE:

Matrix-free osteogenic devices, implants and methods of

use thereof

INVENTOR(S):

Rueger, David C., Southborough, MA, UNITED STATES Tucker, Marjorie M., Holliston, MA, UNITED STATES

PATENT ASSIGNEE(S):

STRYKER CORPORATION (U.S. corporation)

NUMBER KIND DATE _____ US 2002091077 A1 20020711 PATENT INFORMATION: US 6426332 B2 20020730 US 2001-887901 A1 20010622 (9) APPLICATION INFO.:

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1998-19339, filed on 5 Feb

1998, UNKNOWN

DOCUMENT TYPE: FILE SEGMENT:

Utility APPLICATION

LEGAL REPRESENTATIVE:

FISH & NEAVE, 1251 AVENUE OF THE AMERICAS, 50TH FLOOR,

NEW YORK, NY, 10020-1105

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

37 1

LINE COUNT:

2801

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 9 OF 32 USPATFULL on STN T_8

Repair of larynx, trachea, and other fibrocartilaginous tissues TI

Provided herein are methods and devices for inducing the formation of AΒ functional replacement nonarticular cartilage tissues and ligament tissues. These methods and devices involve the use of osteogenic proteins, and are useful in repairing defects in the larynx, trachea, interarticular menisci, intervertebral discs, ear, nose, ribs and other fibrocartilaginous tissues in a mammal.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2001:165613 USPATFULL

TITLE:

Repair of larynx, trachea, and other fibrocartilaginous

INVENTOR(S):

Vukicevic, Slobodan, Zagreb, Croatia

Katic, Vladimir, Zagreb, Croatia

Sampath, Kuber T., Holliston, MA, United States

PATENT ASSIGNEE(S):

Creative BioMolecules, Inc. (non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION:

US 2001024823 A1 20010927 US 2001-828607 A1 20010406 (9)

APPLICATION INFO.: RELATED APPLN. INFO.:

Continuation of Ser. No. WO 1999-US17222, filed on 30

Jul 1999, UNKNOWN

NUMBER DATE ______

PRIORITY INFORMATION:

US 1998-103161P 19981006 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

FISH & NEAVE, 1251 AVENUE OF THE AMERICAS, 50TH FLOOR,

NEW YORK, NY, 10020-1105

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1859 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 10 OF 32 USPATFULL on STN L8

Matrix-free osteogenic devices, implants and methods of use thereof TI Provided herein are methods for inducing bone formation in a mammal AB sufficient to fill a defect defining a void, wherein osteogenic protein is provided alone or dispersed in a biocompatible non-rigid, amorphous carrier having no defined surfaces. The methods and devices provide injectable formulations for filling critical size defects, as well as for accelerating the rate and enhancing the quality of bone formation in non-critical size defects.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2001:142331 USPATFULL ACCESSION NUMBER:

Matrix-free osteogenic devices, implants and methods of TITLE:

use thereof

Rueger, David C., Southborough, MA, United States INVENTOR (S):

Tucker, Marjorie M., Holliston, MA, United States

Stryker Corporation, Kalamazoo, MI, United States (U.S. PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATE ______ US 6281195 B1 20010828 US 1998-19339 19980205 PATENT INFORMATION: 19980205 (9) APPLICATION INFO.: DOCUMENT TYPE: Utility GRANTED FILE SEGMENT:

PRIMARY EXAMINER: Russel, Jeffrey E.

LEGAL REPRESENTATIVE: Fish & Neave, Haley, Jr., James F., Mangasarian, Karen

NUMBER OF CLAIMS: 25 EXEMPLARY CLAIM: 1 2501 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 11 OF 32 USPATFULL on STN

OSTEOGENIC DEVICES AND METHODS OF USE THEREOF FOR REPAIR OF ENDOCHONDRAL TI

BONE, OSTEOCHONDRAL AND CHONDRAL DEFECTS

Disclosed herein are improved osteogenic devices and methods of use AΒ thereof for repair of bone and cartilage defects. The devices and methods promote accelerated formation of repair tissue with enhanced stability using less osteogenic protein than devices in the art. Defects susceptible to repair with the instant invention include, but are not limited to: critical size defects, non-critical size defects, non-union fractures, fractures, osteochondral defects, subchondral defects, and defects resulting from degenerative diseases such as osteochondritis dessicans.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2001:139603 USPATFULL ACCESSION NUMBER:

OSTEOGENIC DEVICES AND METHODS OF USE THEREOF FOR TITLE:

REPAIR OF ENDOCHONDRAL BONE, OSTEOCHONDRAL AND CHONDRAL

DEFECTS

RUEGER, DAVID C., SOUTHBOROUGH, MA, United States INVENTOR(S):

TUCKER, MARJORIE A., HOLLISTON, MA, United States CHANG, AN-CHENG, WESTBOROUGH, MA, United States

NUMBER KIND DATE -----US 2001016646 A1 20010823 US 1998-45331 A1 19980320 PATENT INFORMATION: APPLICATION INFO.: A1 19980320 (9) Utility DOCUMENT TYPE:

APPLICATION FILE SEGMENT:

PATENT ADMINISTATOR, TESTA HURWITZ & THIBEAULT, LLP, LEGAL REPRESENTATIVE:

HIGH STREET TOWER, 125 HIGH STREET, BOSTON, MA, 02110

NUMBER OF CLAIMS: 49

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 12 OF 32 USPATFULL on STN

IMPROVED OSTEOGENIC DEVICES AND METHODS OF USE THEREOF FOR REPAIR OF TI

ENDOCHONDRAL BONE AND OSTEOCHONDRAL DEFECTS

Disclosed herein are improved osteogenic devices and methods of use AΒ thereof for repair of bone and cartilage defects. The devices and methods promote accelerated formation of repair tissue with enhanced stability using less osteogenic protein than devices

in the art. Defects susceptible to repair with the instant invention include, but are not limited to: critical size defects, non-critical size defects, non-union fractures, fractures, osteochondral defects, subchondral defects, and defects resulting from degenerative diseases

such as osteochondritis dessicans.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2001:134213 USPATFULL ACCESSION NUMBER:

TITLE:

IMPROVED OSTEOGENIC DEVICES AND METHODS OF USE THEREOF

FOR REPAIR OF ENDOCHONDRAL BONE AND OSTEOCHONDRAL

DEFECTS

RUEGER, DAVID C, SOUTHBOROUGH, MA, United States INVENTOR(S):

TUCKER, MARJORIE A, HOLLISTON, MA, United States

	NUMBER	KIND	DATE	
PATENT INFORMATION: APPLICATION INFO.: DOCUMENT TYPE:	US 2001014662 US 1997-822186 Utility	A1 A1	20010816	(8)

D APPLICATION FILE SEGMENT:

JAMES F. HALEY, FISH & NEAVE, 1251 AVENUE OF THE LEGAL REPRESENTATIVE:

AMERICAS, NEW YORK, NY, 100201104

NUMBER OF CLAIMS: 34 EXEMPLARY CLAIM: 1

2 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 4425

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 13 OF 32 USPATFULL on STN L8

In vitro production of transplantable cartilage tissue TI

The present invention is directed to a transplantable cartilage matrix AΒ

and a method for its in vitro production.

ACCESSION NUMBER: 2001:128977 USPATFULL

In vitro production of transplantable cartilage tissue TITLE:

Masuda, Koichi, Glenview, IL, United States INVENTOR(S):

Thomar, Eugene J-M. A., Lockport, IL, United States

Hejna, Michael, Riverside, IL, United States

Rush-Presbyterian-St. Luke's Medical Center (U.S. PATENT ASSIGNEE(S):

corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2001012965 US 6451060	A1 B2	20010809 20020917	·
APPLICATION INFO.: RELATED APPLN. INFO.:	US 2001-799284	A1 Ser. No	. US 1999-26	9) 0741, filed on 1 Mar

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

FITCH EVEN TABIN AND FLANNERY, 120 SOUTH LA SALLE

STREET, SUITE 1600, CHICAGO, IL, 606033406

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

27

NUMBER OF DRAWINGS:

3 Drawing Page(s)

LINE COUNT:

T.S ANSWER 14 OF 32 USPATFULL on STN

TI In vitro production of transplantable cartilage tissue cohesive cartilage produced thereby, and method for the surgical repair of

cartilage damage

The present invention is directed to a transplantable cartilage matrix and a method for its in vitro production.

ACCESSION NUMBER:

2001:32559 USPATFULL

TITLE:

In vitro production of transplantable cartilage tissue cohesive cartilage produced thereby, and method for the

surgical repair of cartilage damage

INVENTOR(S):

Masuda, Koichi, 1214 Longmeadow Dr., Glenview, IL,

United States 60025

Thonar, Eugene J-M. A., 14503 S. Pheasant, Lockport,

IL, United States 60441

Hejna, Michael, 236 Shenstone Rd., Riverside, IL,

United States 60546

NUMBER KIND DATE ______ -----

PATENT INFORMATION:

US 6197061 B1 20010306 US 1999-260741 19990301

APPLICATION INFO.:

19990301 (9)

DOCUMENT TYPE: FILE SEGMENT:

Utility Granted

PRIMARY EXAMINER:

Smith, Jeffrey A.

LEGAL REPRESENTATIVE:

Fitch, Even, Tabin & Flannery

NUMBER OF CLAIMS:

23

EXEMPLARY CLAIM: NUMBER OF DRAWINGS: 15 5 Drawing Figure(s); 2 Drawing Page(s)

LINE COUNT:

960

ANSWER 15 OF 32 USPATFULL on STN L8

TI Frazzled nucleotide sequences and expression products

ABPurified Frazzled proteins, including WG67-16, WG67-19 and WA628, and processes for producing them are disclosed. DNA molecules encoding the Frazzled proteins, including WG67-16, WG67-19 and WA628, are also disclosed. The proteins may be used in modulating the binding of Wnt genes to their receptor. They are useful in the modulation of cellular formation, growth, differentiation, proliferation and/or maintenance of a variety of adult and embryonic tissues and organs.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2000:174377 USPATFULL

TITLE:

Frazzled nucleotide sequences and expression products

Racie, Lisa, Acton, MA, United States INVENTOR(S):

Lavallie, Edward, Tewksbury, MA, United States Paulsen, Janet, Watertown, MA, United States

Sive, Hazel, Newton, MA, United States Sun, Benjamin, Cambridge, MA, United States

PATENT ASSIGNEE(S):

Genetics Institute, Inc., Cambridge, MA, United States

(U.S. corporation)

Whitehead Institute for Biomedical Research, Cambridge,

MA, United States (U.S. corporation)

NUMBER KIND DATE DATERNIT INFORMATION. IIS 6165748 20001226

PATENT INFORMATION: US 6165748 20001226 APPLICATION INFO.: US 1997-893654 19970711 (8)

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Spector, Lorraine ASSISTANT EXAMINER: Kaufman, Claire M. LEGAL REPRESENTATIVE: Gyure, Barbara A.

NUMBER OF CLAIMS: 39 EXEMPLARY CLAIM: 7

LINE COUNT: 2120

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 16 OF 32 USPATFULL on STN

TI Manufacture of autogenous replacement body parts

Disclosed are matrix materials, methods, and devices for manufacture in vivo of autogenous replacement body parts comprising plural distinct tissues. In one embodiment, the replacement body part is a skeletal joint and the new plural distinct tissues include bone and articular cartilage.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2000:113511 USPATFULL

TITLE: Manufacture of autogenous replacement body

parts

INVENTOR(S): Khouri, Roger K., St. Louis, MI, United States

Sampath, Kuber T., Medway, MA, United States Rueger, David C., Hopkinton, MA, United States

PATENT ASSIGNEE(S): Styker Corporation, Kalamazoo, MI, United States (U.S.

corporation)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1994-253398, filed

on 3 Jun 1994, now patented, Pat. No. US 5906827

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Mullis, Jeffrey C.

LEGAL REPRESENTATIVE: Testa, Hurwitz & Thibeault, LLP

NUMBER OF CLAIMS: 30 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 13 Drawing Figure(s); 3 Drawing Page(s)

LINE COUNT: 1672

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 17 OF 32 USPATFULL on STN

TI Manufacture of autogenous replacement body parts

AB Disclosed are matrix materials, methods, and devices for manufacture in vivo of autogenous replacement body parts comprising plural distinct tissues. In one embodiment, the replacement body part is a skeletal joint and the new plural distinct tissues include bone and articular cartilage.

ACCESSION NUMBER: 2000:21237 USPATFULL

TITLE: Manufacture of autogenous replacement body

parts

INVENTOR(S): Khouri, Roger K., St. Louis, MO, United States

Sampath, Kuber T., Medway, MA, United States Rueger, David C., Hopkinton, MA, United States

PATENT ASSIGNEE(S): Stryker Corporation, Hopkinton, MA, United States (U.S.

corporation)

NUMBER KIND DATE _______

PATENT INFORMATION: APPLICATION INFO.:

US 6027743 US 1995-458811 US 6027743 20000222 19950602 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1994-253398, filed

on 3 Jun 1994, now patented, Pat. No. US 5906827

DOCUMENT TYPE: Utility FILE SEGMENT:

Granted Mullis, Jeffrey C.

PRIMARY EXAMINER: LEGAL REPRESENTATIVE:

Testa, Hurwitz & Thibeault, LLP

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

13 Drawing Figure(s); 3 Drawing Page(s)

LINE COUNT:

ANSWER 18 OF 32 USPATFULL on STN L8

Cartilage induction by bone morphogenetic proteins TI

Compositions of proteins with cartilaginous tissue inducing and AΒ maintenance activity are disclosed. The compositions are useful in the treatment of osteoarthritis, cartilage defects and in related tissue repair.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

1999:56457 USPATFULL

TITLE: INVENTOR(S):

Cartilage induction by bone morphogenetic proteins Hattersley, Gary, Cambridge, MA, United States

Wolfman, Neil M., Dover, MA, United States

Morris, Elisabeth A., Southboro, MA, United States Rosen, Vicki A., Chestnut Hill, MA, United States

PATENT ASSIGNEE(S):

Genetics Institute, Inc., Cambridge, MA, United States

(U.S. corporation)

NUMBER KIND DATE _____

PATENT INFORMATION:

US 5902785 US 1996-646193 19990511

APPLICATION INFO.:

19960507 (8) RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-467110, filed

on 6 Jun 1995, now abandoned

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Kemmerer, Elizabeth

LEGAL REPRESENTATIVE:

Lazar, Steven R., Gyure, Barbara A.

NUMBER OF CLAIMS:

- 6

EXEMPLARY CLAIM: LINE COUNT:

811

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 19 OF 32 USPATFULL on STN

Methods and compositions for the treatment and repair of defects or TI

lesions in cartilage or bone using functional barrier

Methods and compositions are provided for the treatment and repair of AB defects in the cartilage or bone of humans and other animals as in full-thickness defects in joints. To induce cartilage formation, a defect in cartilage is filled with a matrix having pores sufficiently large to allow cartilage repair cells to populate the matrix. The matrix contains an anti-angiogenic agent that serves as a functional barrier to prevent vascularization and bone growth into the cartilage area. The matrix filling the defect in cartilage may also contain a proliferation agent and a chemotactic agent, and a transforming factor in an appropriate delivery system. A functional barrier between the bone and cartilage areas of a full-thickness defect may also be created by heat-treating the areas of bleeding to form a transient tissue barrier which prevents blood vessels and associated cells from penetrating from the bone area into the cartilage area. If desired, the bone portion of

the full-thickness defect may be filled with a matrix having pores large enough to allow cells to populate the matrix and to form blood vessels. The matrix filling the bone defect may contain an angiogenic factor and an osteogenic factor in an appropriate delivery system. Methods and compositions are also provided for assisted bone and connective tissue regeneration for dental and other applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

1998:162021 USPATFULL

TITLE:

Methods and compositions for the treatment and repair

of defects or lesions in cartilage or bone using

functional barrier

INVENTOR (S):

Hunziker, Ernst B., Riedholz, Switzerland

PATENT ASSIGNEE(S):

Shaw, Robert Francis, Sausalito, CA, United States

(U.S. individual)

NUMBER KIND DATE PATENT INFORMATION: US 5853746 19981229 US 1996-672618 19960628 (8)

APPLICATION INFO .: RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 1995-524034, filed

on 6 Sep 1995, now abandoned which is a continuation of Ser. No. US 1994-338126, filed on 1 Nov 1994, now abandoned which is a continuation of Ser. No. US 1992-979904, filed on 23 Nov 1992, now patented, Pat. No. US 5368858 which is a division of Ser. No. US 1991-648274, filed on 31 Jan 1991, now patented, Pat.

No. US 5206023

DOCUMENT TYPE:

Utility Granted

FILE SEGMENT:

Azpuru, Carlos A.

PRIMARY EXAMINER: LEGAL REPRESENTATIVE:

Fish & Neave, Massaro, Jane A., Rosen, Mark J.

NUMBER OF CLAIMS:

1673

EXEMPLARY CLAIM: LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 20 OF 32 USPATFULL on STN

Methods and compositions for the treatment and repair of defects or TI

lesions in cartilage or bone

Methods and compositions are provided for the treatment and repair of AΒ defects in the cartilage or bone of humans and other animals as in full-thickness defects in joints. The defect in bone is filled with a matrix having pores large enough to allow cells to populate the matrix and to form blood vessels. The matrix filling the bone defect contains an angiogenic factor and also contains an osteogenic factor in an appropriate delivery system. To induce cartilage formation, a defect in cartilage is filled with a matrix having pores sufficiently large to allow cartilage repair cells to populate the matrix. The matrix filling the defect in cartilage contains a proliferation agent and also contains a transforming factor in an appropriate delivery system. The matrix may also contain a chemotactic agent to attract cartilage repair cells. In a full-thickness defect, the defect sites in bone and cartilage are separated from each other by a membrane, which is sealed to the cartilage-bone-junction and which prevents blood vessels and associated cells from penetrating from one site to the other.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

93:104945 USPATFULL

TITLE:

Methods and compositions for the treatment and repair

of defects or lesions in cartilage or bone

INVENTOR (S):

Hunziker, Ernst B., Riedholz, Switzerland

PATENT ASSIGNEE(S):

Shaw, Robert Francis, San Francisco, CA, United States

(U.S. individual)

NUMBER KIND DATE _______

PATENT INFORMATION: US 5270300

US 1991-756164

19931214 19910906 (7)

65p

APPLICATION INFO.: DOCUMENT TYPE:

Utility Granted

FILE SEGMENT: PRIMARY EXAMINER:

Griffin, Ronald W.

LEGAL REPRESENTATIVE:

Mullowney, Edward F., Massaro, Jane A.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

26 1,10

LINE COUNT:

1089

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 21 OF 32 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN L8

Novel methods for repairing a defect in mammalian nonarticular cartilage TI tissue or ligaments using an osteogenic protein in a biocompatible, bioresorbable carrier

AAY92442 Protein ΑN

DGENE

The specification concerns a novel method for repairing a defect in a AΒ non-articular cartilage tissue or a ligament of a mammal, which comprises providing an osteogenic protein in a biocompatible, bioresorbable carrier to the defect locus to induce the formation of functional replacement cartilage. The methods and implants, promote chondrogenesis and are useful for repairing or correcting a defect in a non-articular cartilage tissue or a ligament of a mammal, e.g. cleft larynx, oedema of the glottis, ulceration of the larynx caused by syphilis, tuberculosis or malignancy, defects resulting from mechanical trauma to the larynx or trachea (including tracheotomy and laryngotomy), laryngeal cancer, and defects of the ear, nose, ribs, invertebral discs, and interarticular menisci.

ACCESSION NUMBER: AAY92442 Protein

TITLE:

DGENE Novel methods for repairing a defect in mammalian nonarticular cartilage tissue or ligaments using an

osteogenic protein in a biocompatible,

bioresorbable carrier

INVENTOR:

Vukicevic S; Katic V; Sampath K T

PATENT ASSIGNEE: (STYC) STRYKER CORP.

PATENT INFO:

WO 2000020021 A1 20000413

APPLICATION INFO: WO 1999-US17222 19990730

PRIORITY INFO:

US 1998-103161 19981006

DOCUMENT TYPE:

Patent English

LANGUAGE:

2000-317644 [27]

OTHER SOURCE:

CROSS REFERENCES: N-PSDB: AAA09361 DESCRIPTION:

Human osteogenic protein 1 (OP-1).

- ANSWER 22 OF 32 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN T.8
- Novel methods for repairing a defect in mammalian nonarticular cartilage TI tissue or ligaments using an osteogenic protein in a biocompatible, bioresorbable carrier

ANAAY92441 protein DGENE

Generic Sequence 10 contains generic sequence 9 and an N-terminal AΒ extension. Generic sequence 9 is a composite amino acid sequence of the following proteins: human OP-1 to -3, human BMP-2 to -6, -9 to -11, Drosophila 60A, Xenopus Vg-1, sea urchin UNIVIN, human CDMP-1 to -3, human and mouse GDF-1, chicken DORSALIN, DPP, Drosophila Screw, mouse NODAL, mouse GDF-8 to -11, human GDF-8, -11, human BMP-15 and rat BMP3b. The specification concerns a novel method for repairing a defect in a non-articular cartilage tissue or a ligament of a mammal, which comprises providing an osteogenic protein in a biocompatible, bioresorbable carrier to the defect locus to induce the formation of functional replacement cartilage. The methods and implants, promote chondrogenesis and are useful for repairing or

correcting a defect in a non-articular cartilage tissue or a ligament of a mammal, e.g. cleft larynx, oedema of the glottis, ulceration of the larynx caused by syphilis, tuberculosis or malignancy, defects resulting from mechanical trauma to the larynx or trachea (including tracheotomy and laryngotomy), laryngeal cancer, and defects of the ear, nose, ribs, invertebral discs, and interarticular menisci.

ACCESSION NUMBER: AAY92441 protein DGENE

TITLE: Novel methods for repairing a defect in mammalian

nonarticular cartilage tissue or ligaments using an

osteogenic protein in a biocompatible,

bioresorbable carrier

INVENTOR: Vukicevic S; Katic V; Sampath K T

PATENT ASSIGNEE: (STYC) STRYKER CORP.

PATENT INFO: WO 2000020021 A1 20000413 65p

APPLICATION INFO: WO 1999-US17222 19990730 PRIORITY INFO: US 1998-103161 19981006

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-317644 [27]

DESCRIPTION: Generic sequence 10, derived from osteogenic

protein family members.

L8 ANSWER 23 OF 32 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN

Novel methods for repairing a defect in mammalian nonarticular cartilage tissue or ligaments using an **osteogenic protein** in a biocompatible, bioresorbable carrier

AN AAY92440 protein DGENE

Generic Sequence 9 is a composite amino acid sequence of the following AΒ proteins: human OP-1 to -3, human BMP-2 to -6, -9 to -11, Drosophila 60A, Xenopus Vg-1, sea urchin UNIVIN, human CDMP-1 to -3, human and mouse GDF-1, chicken DORSALIN, DPP, Drosophila Screw, mouse NODAL, mouse GDF-8 to -11, human GDF-8, -11, human BMP-15 and rat BMP3b. The specification concerns a novel method for repairing a defect in a non-articular cartilage tissue or a ligament of a mammal, which comprises providing an osteogenic protein in a biocompatible, bioresorbable carrier to the defect locus to induce the formation of functional replacement cartilage. The methods and implants, promote chondrogenesis and are useful for repairing or correcting a defect in a non-articular cartilage tissue or a ligament of a mammal, e.g. cleft larynx, oedema of the glottis, ulceration of the larynx caused by syphilis, tuberculosis or malignancy, defects resulting from mechanical trauma to the larynx or trachea (including tracheotomy and laryngotomy), laryngeal cancer, and defects of the ear, nose, ribs, invertebral discs, and interarticular menisci.

ACCESSION NUMBER: AAY92440 protein DGENE

TITLE: Novel methods for repairing a defect in mammalian

nonarticular cartilage tissue or ligaments using an

osteogenic protein in a biocompatible,

bioresorbable carrier

INVENTOR: Vukicevic S; Katic V; Sampath K T

PATENT ASSIGNEE: (STYC) STRYKER CORP.

PATENT INFO: WO 2000020021 A1 20000413 65p

APPLICATION INFO: WO 1999-US17222 19990730 PRIORITY INFO: US 1998-103161 19981006

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-317644 [27]

DESCRIPTION: Generic sequence 9, derived from osteogenic

protein family members.

L8 ANSWER 24 OF 32 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN

TI Novel methods for repairing a defect in mammalian nonarticular cartilage tissue or ligaments using an **osteogenic protein** in a biocompatible, bioresorbable carrier

AN AAY92439 protein DGENE Generic Sequence 8 contains generic sequence 7 (AAY92438), which AΒ accomodates the homologies shared among osteogenic protein family members, including OP-1, OP-2, OP-3, BMP-2 to -6, 60A, DPP, Vg-1, Vgr-1 and GDF, as well as an N-terminal addition of 5 residues. The specification concerns a novel method for repairing a defect in a non-articular cartilage tissue or a ligament of a mammal, which comprises providing an osteogenic protein in a biocompatible, bioresorbable carrier to the defect locus to induce the formation of functional replacement cartilage. The methods and implants, promote chondrogenesis and are useful for repairing or correcting a defect in a non-articular cartilage tissue or a ligament of a mammal, e.g. cleft larynx, oedema of the glottis, ulceration of the larynx caused by syphilis, tuberculosis or malignancy, defects resulting from mechanical trauma to the larynx or trachea (including tracheotomy and laryngotomy), laryngeal cancer, and defects of the ear, nose, ribs, invertebral discs, and interarticular menisci. ACCESSION NUMBER: AAY92439 protein DGENE TITLE: Novel methods for repairing a defect in mammalian nonarticular cartilage tissue or ligaments using an osteogenic protein in a biocompatible, bioresorbable carrier INVENTOR: Vukicevic S; Katic V; Sampath K T PATENT ASSIGNEE: (STYC) STRYKER CORP. PATENT INFO: WO 2000020021 A1 20000413 65p APPLICATION INFO: WO 1999-US17222 19990730 PRIORITY INFO: US 1998-103161 19981006 DOCUMENT TYPE: Patent English LANGUAGE: OTHER SOURCE: 2000-317644 [27] DESCRIPTION: Generic sequence 8, derived from osteogenic protein family members. L8 ANSWER 25 OF 32 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN ΤI Novel methods for repairing a defect in mammalian nonarticular cartilage tissue or ligaments using an osteogenic protein in a biocompatible, bioresorbable carrier ΑN AAY92438 protein DGENE AB Generic Sequence 7 accomodates the homologies shared among osteogenic protein family members, including OP-1, OP-2, OP-3, BMP-2 to -6, 60A, DPP, Vg-1, Vgr-1 and GDF. The specification concerns a novel method for repairing a defect in a non-articular cartilage tissue or a ligament of a mammal, which comprises providing an osteogenic protein in a biocompatible, bioresorbable carrier to the defect locus to induce the formation of functional replacement cartilage. The methods and implants, promote chondrogenesis and are useful for repairing or correcting a defect in a non-articular cartilage tissue or a ligament of a mammal, e.g. cleft larynx, oedema of the glottis, ulceration of the larynx caused by syphilis, tuberculosis or malignancy, defects resulting from mechanical trauma to the larynx or trachea (including tracheotomy and laryngotomy), laryngeal cancer, and defects of the ear, nose, ribs, invertebral discs, and interarticular menisci. ACCESSION NUMBER: AAY92438 protein TITLE: Novel methods for repairing a defect in mammalian nonarticular cartilage tissue or ligaments using an osteogenic protein in a biocompatible, bioresorbable carrier INVENTOR: Vukicevic S; Katic V; Sampath K T PATENT ASSIGNEE: (STYC) STRYKER CORP.

WO 2000020021 A1 20000413

19981006

APPLICATION INFO: WO 1999-US17222 19990730

US 1998-103161

65p

PATENT INFO:

PRIORITY INFO:

DOCUMENT TYPE:

Patent English

LANGUAGE: OTHER SOURCE:

2000-317644 [27]

DESCRIPTION:

Generic sequence 7, derived from osteogenic

protein family members.

ANSWER 26 OF 32 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN L8

Novel methods for repairing a defect in mammalian nonarticular cartilage TТ tissue or ligaments using an osteogenic protein in a

biocompatible, bioresorbable carrier

AAY92437 protein DGENE AN

OPX defines the seven-cysteine skeleton of several OP-1 and OP-2 AΒ variants. Each Xaa is chosen from the residues occuring at the corresponding position in the C-terminal sequence of mouse or human OP-1 or OP-2. The specification concerns a novel method for repairing a defect in a non-articular cartilage tissue or a ligament of a mammal, which comprises providing an osteogenic protein in a biocompatible, bioresorbable carrier to the defect locus to induce the formation of functional replacement cartilage. The methods and implants, promote chondrogenesis and are useful for repairing or correcting a defect in a non-articular cartilage tissue or a ligament of a mammal, e.g. cleft larynx, oedema of the qlottis, ulceration of the larynx caused by syphilis, tuberculosis or malignancy, defects resulting from mechanical trauma to the larynx or trachea (including tracheotomy and laryngotomy), laryngeal cancer, and defects of the ear, nose, ribs, invertebral discs, and interarticular menisci.

ACCESSION NUMBER: AAY92437 protein DGENE

TITLE:

Novel methods for repairing a defect in mammalian nonarticular cartilage tissue or ligaments using an

65p

osteogenic protein in a biocompatible,

bioresorbable carrier

INVENTOR:

Vukicevic S; Katic V; Sampath K T

PATENT ASSIGNEE:

(STYC) STRYKER CORP.

APPLICATION INFO: WO 1999-US17222 19990730

WO 2000020021 A1 20000413

US 1998-103161 19981006 PRIORITY INFO: DOCUMENT TYPE:

LANGUAGE:

PATENT INFO:

Patent English

OTHER SOURCE:

2000-317644 [27]

DESCRIPTION:

Generic OPX, seven-cysteine skeleton.

- ANSWER 27 OF 32 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN \mathbf{r}
- Device for repairing skeletal joint defect in mammals comprises exogenous TΤ osteogenic protein deposited on the surface of a matrix comprising plural distinct tissues derived from proximal or distal hemi-joint

DGENE ANAAB08842 Protein

The present sequence represents a generic osteogenic AΒ protein (OP). The protein is used in devices of the invention. The specification describes devices for repairing a skeletal joint defect in mammals. The device comprises exogenous osteogenic protein deposited on the surface of a biocompatible, biodegradable matrix. The matrix comprises distinct tissues derived from a proximal or distal hemi-joint. The device serves as a template to form an in vivo functional skeletal joint replacement which is long term mechanically and functionally viable. The exogenous OP1 is deposited on the matrix surface to induce formation of new distinct tissues, and to permit regeneration of a functional skeletal joint replacement comprising distinct tissues. The devices are useful for inducing the formation of a functional skeletal joint replacement, and for repairing an articular cartilage defect occurring in a synovial cavity in a mammal. They are also useful for repair and regeneration of distinct tissues at a single defect side in a mammal and

for the manufacture, in vivo, of autogenous replacement body

parts comprising distinct tissues.

ACCESSION NUMBER: AAB08842 Protein DGENE

Device for repairing skeletal joint defect in mammals TITLE:

comprises exogenous osteogenic protein

deposited on the surface of a matrix comprising plural distinct tissues derived from proximal or distal hemi-joint

21p

Sampath K T; Rueger D C; Khouri R K INVENTOR:

(STYC) STRYKER CORP. PATENT ASSIGNEE: PATENT INFO:

US 6110482 A 20000829

APPLICATION INFO: US 1995-459129 19950602 US 1994-253398 19940603 PRIORITY INFO:

DOCUMENT TYPE: Patent English LANGUAGE:

2000-571418 [53] OTHER SOURCE:

Amino acid sequence of a generic osteogenic DESCRIPTION:

protein designated OPX.

ANSWER 28 OF 32 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN L8

Device for repairing skeletal joint defect in mammals comprises exogenous TI osteogenic protein deposited on the surface of a matrix comprising plural distinct tissues derived from proximal or distal hemi-joint

AAB08841 Protein DGENE AN

The present sequence represents a human osteogenic AB protein 1 (OP1). The protein is used in devices of the invention. The specification describes devices for repairing a skeletal joint defect in mammals. The device comprises exogenous osteogenic protein deposited on the surface of a biocompatible, biodegradable matrix. The matrix comprises distinct tissues derived from a proximal or distal hemi-joint. The device serves as a template to form an in vivo functional skeletal joint replacement which is long term mechanically and functionally viable. The exogenous OP1 is deposited on the matrix surface to induce formation of new distinct tissues, and to permit regeneration of a functional skeletal joint replacement comprising distinct tissues. The devices are useful for inducing the formation of a functional skeletal joint replacement, and for repairing an articular cartilage defect occurring in a synovial cavity in a mammal. They are also useful for repair and regeneration of distinct tissues at a single defect side in a mammal and for the manufacture, in vivo, of autogenous replacement body parts comprising distinct tissues.

ACCESSION NUMBER: AAB08841 Protein

Device for repairing skeletal joint defect in mammals TITLE:

comprises exogenous osteogenic protein

deposited on the surface of a matrix comprising plural distinct tissues derived from proximal or distal hemi-joint

Sampath K T; Rueger D C; Khouri R K INVENTOR:

PATENT ASSIGNEE: (STYC) STRYKER CORP.

PATENT INFO: US 6110482 A 20000829 21p

APPLICATION INFO: US 1995-459129 19950602 US 1994-253398 19940603 PRIORITY INFO:

DOCUMENT TYPE: Patent LANGUAGE: English

2000-571418 [53] OTHER SOURCE: CROSS REFERENCES: N-PSDB: AAA75039

Amino acid sequence of a human osteogenic DESCRIPTION:

protein 1 (OP1).

ANSWER 29 OF 32 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN T.8

Novel methods for repairing a defect in mammalian nonarticular cartilage TТ tissue or ligaments using an osteogenic protein in a

biocompatible, bioresorbable carrier

AN AAA09361 cDNA

AB The specification concerns a novel method for repairing a defect in a non-articular cartilage tissue or a ligament of a mammal, which comprises providing an osteogenic protein in a biocompatible, bioresorbable carrier to the defect locus to induce the formation of functional replacement cartilage. The methods and implants, promote chondrogenesis and are useful for repairing or correcting a defect in a non-articular cartilage tissue or a ligament of a mammal, e.g. cleft larynx, oedema of the glottis, ulceration of the larynx caused by syphilis, tuberculosis or malignancy, defects resulting from mechanical trauma to the larynx or trachea (including tracheotomy and laryngotomy), laryngeal cancer, and defects of the ear, nose, ribs, invertebral discs, and interarticular menisci.

ACCESSION NUMBER: AAA09361 cDNA

TITLE: Novel methods for repairing a defect in mammalian nonarticular cartilage tissue or ligaments using an

osteogenic protein in a biocompatible,

bioresorbable carrier

INVENTOR: Vukicevic S; Katic V; Sampath K T

PATENT ASSIGNEE: (STYC) STRYKER CORP.

PATENT INFO: WO 2000020021 A1 20000413 65p

APPLICATION INFO: WO 1999-US17222 19990730 PRIORITY INFO: US 1998-103161 19981006

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-317644 [27]

CROSS REFERENCES: P-PSDB: AAY92442

DESCRIPTION: Human osteogenic protein 1 (OP-1) coding

sequence.

L8ANSWER 30 OF 32 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN

ΤI Device for repairing skeletal joint defect in mammals comprises exogenous osteogenic protein deposited on the surface of a matrix comprising plural distinct tissues derived from proximal or distal hemi-joint

ΑN AAA75039 CDNA DGENE

AB The present sequence encodes a human osteogenic protein 1 (OP1). The protein is used in devices of the invention. The specification describes devices for repairing a skeletal joint defect in mammals. The device comprises exogenous osteogenic protein deposited on the surface of a biocompatible, biodegradable matrix. The matrix comprises distinct tissues derived from a proximal or distal hemi-joint. The device serves as a template to form an in vivo functional skeletal joint replacement which is long term mechanically and functionally viable. The exogenous OP1 is deposited on the matrix surface to induce formation of new distinct tissues, and to permit regeneration of a functional skeletal joint replacement comprising distinct tissues. The devices are useful for inducing the formation of a functional skeletal joint replacement, and for repairing an articular cartilage defect occurring in a synovial cavity in a mammal. They are also useful for repair and regeneration of distinct tissues at a single defect side in a mammal and for the manufacture, in vivo, of autogenous replacement body parts comprising distinct tissues.

ACCESSION NUMBER: AAA75039 cDNA DGENE

TITLE: Device for repairing skeletal joint defect in mammals

comprises exogenous osteogenic protein

deposited on the surface of a matrix comprising plural distinct tissues derived from proximal or distal hemi-joint

INVENTOR: Sampath K T; Rueger D C; Khouri R K

PATENT ASSIGNEE: (STYC) STRYKER CORP.

PATENT INFO: US 6110482 A 20000829 21p APPLICATION INFO: US 1995-459129 19950602 PRIORITY INFO: US 1994-253398 19940603

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-571418 [53] CROSS REFERENCES: P-PSDB: AAB08841

DESCRIPTION: cDNA encoding a human osteogenic protein

1 (OP1).

L8 ANSWER 31 OF 32 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN

Device for repairing skeletal joint defect in mammals comprises exogenous osteogenic protein deposited on the surface of a matrix

comprising plural distinct tissues derived from proximal or distal

hemi-joint.

AN 2000-571418 [53] WPIDS

CR 1996-039987 [04]; 2000-222942 [19]; 2003-576374 [54]

AB US 6110482 A UPAB: 20030821

NOVELTY - A device (I) for repairing a skeletal joint (SJ) defect in mammals comprising exogenous osteogenic protein deposited on the surface of a biocompatible, biodegradable matrix comprising distinct tissues derived from a proximal or distal hemi-joint including a non-mineralized tissue of a joint and bone underlying the articular surface, is new.

DETAILED DESCRIPTION - (I) serves as a template to form an in vivo functional SJ replacement which is long term mechanically and functionally viable. The matrix defines a unitary intact structure allowing the attachment of infiltrating cells. The underlying bone extends through the margin of articular cartilage into the supporting cancellous bone of the proximal or distal hemi-joint, and has dimensions and shape conforming to the SJ to be repaired. The exogenous osteogenic protein is deposited on the matrix surface to induce formation of new distinct tissues, and to permit regeneration of a functional SJ replacement comprising distinct tissues.

INDEPENDENT CLAIMS are also included for the following:

- (1) a method for inducing the formation of a **replacement** skeletal joint which is mechanically and functionally viable by implanting the above device into a mammal;
- (2) a method for repairing, in vivo, an articular cartilage defect; and
- (3) a method for repairing, in vivo, a non-mineralized tissue defect in a skeletal joint.

ACTIVITY - Osteopathic.

MECHANISM OF ACTION - Implant.

USE - (I) is useful for inducing the formation of a functional SJ replacement by implanting (I) at a locus in a mammal, and for repairing an articular cartilage defect occurring in a synovial cavity in a mammal (claimed). (I) is useful for repair and regeneration of distinct tissues at a single defect side in a mammal and for the manufacture, in vivo, of autogenous replacement body parts comprising distinct tissues. (I) serves as a template to form a functional replacement SJ which is long term mechanically and functionally viable.

ADVANTAGE - A cartilage defect in an articulating joint, particularly a superficial articular cartilage defect can be functionally restored and the undesirable formation of fibrocartilage as in conventional methods, or degeneration into a full-thickness defect can be avoided. (I) induces formation of bona fide hyaline cartilage rather than fibrocartilage at a defect site.

Dwg.0/4

WPIDS

ACCESSION NUMBER: 2000-571418 [53]

CROSS REFERENCE: 1996-039987 [04]; 2000-222942 [19]; 2003-576374 [54]

DOC. NO. NON-CPI: N2000-422681 DOC. NO. CPI: C2000-170290

TITLE: Device for repairing skeletal joint defect in mammals

comprises exogenous osteogenic protein

deposited on the surface of a matrix comprising plural

distinct tissues derived from proximal or distal

hemi-joint.

DERWENT CLASS:

CDASS:

A96 B04 D22 P32

INVENTOR(S):

KHOURI, R K; RUEGER, D C; SAMPATH, K T (STYC) STRYKER CORP

PATENT ASSIGNEE(S):

1

COUNTRY COUNT:

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
US 6110482	A	20000829	(200053)	*	21

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 6110482	_	US 1994-253398 US 1995-459129	19940603 19950602

FILING DETAILS:

PATENT NO	KIND	PATENT NO
US 6110482	A CIP of	US 5906827

PRIORITY APPLN. INFO: US 1995-459129 19950602; US 1994-253398 19940603

- L8 ANSWER 32 OF 32 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN
- Novel methods for repairing a defect in mammalian nonarticular cartilage tissue or ligaments using an **osteogenic protein** in a biocompatible, bioresorbable carrier.
- AN 2000-317644 [27] WPIDS
- CR 2000-317706 [27]
- AB WO 200020021 A UPAB: 20020910

NOVELTY - Repairing a defect in a nonarticular cartilage tissue or a ligament of a mammal, comprising providing an osteogenic protein in a biocompatible, bioresorbable carrier to the defect locus, inducing the formation of functional replacement cartilage, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) an implantable device for repairing a defect in a nonarticular cartilage tissue comprising an **osteogenic protein** disposed in a devitalized cartilage, a collagen carrier, or a carboxymethylcellulose carrier; and
- (2) promoting chondrogenesis at a defect locus in a mammal comprising providing an osteogenic protein in a devitalized cartilage carrier that is configured to fit into the defect locus.

ACTIVITY - Osteogenic; chondrogenic.

MECHANISM OF ACTION - Osteopathic stimulating implant; transplantation.

USE - The methods and implants are useful for repairing or correcting a defect in a nonarticular cartilage tissue or a ligament of a mammal, e.g. cleft larynx, edema of the glottis, ulceration of the larynx caused by syphilis, tuberculosis or malignancy, defects resulting from mechanical trauma to the larynx or trachea (including tracheotomy and laryngotomy), laryngeal cancer, and defects of the ear, nose, ribs, invertebral discs, and interarticular menisci.

Dwg.0/0

2000-317644 [27] WPIDS

CROSS REFERENCE:

2000-317706 [27]

DOC. NO. CPI:

C2000-096081

TITLE:

Novel methods for repairing a defect in mammalian nonarticular cartilage tissue or ligaments using an

70

osteogenic protein in a biocompatible,

bioresorbable carrier.

DERWENT CLASS:

A96 B04 D22

INVENTOR (S):

KATIC, V; SAMPATH, K T; VUKICEVIC, S

PATENT ASSIGNEE(S):

(STYC) STRYKER CORP; (CREA-N) CREATIVE BIOMOLECULES INC

COUNTRY COUNT:

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 2000020021 A1 20000413 (200027)* EN 64

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: AU CA JP US

AU 9952417 A 20000426 (200036)

EP 1117422 A1 20010725 (200143) EN

R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

US 2001024823 A1 20010927 (200159)

JP 2002526167 W 20020820 (200258)

52616/ W 20020820 (200238)

APPLICATION DETAILS:

PATENT NO K	IND	APPLICATION	DATE
WO 2000020021	A1	WO 1999-US17222	19990730
AU 9952417	A	AU 1999-52417	19990730
EP 1117422	A1	EP 1999-937624	19990730
		WO 1999-US17222	19990730
US 2001024823	A1 Provisional	US 1998-103161P	19981006
	Cont of	WO 1999-US17222	19990730
		US 2001-828607	20010406
JP 2002526167	W	WO 1999-US17222	19990730
		JP 2000-573380	19990730

FILING DETAILS:

211122112 210 -1		KIND	PATENT NO				
		9952417		Based			2000020021
	EΡ	1117422	A1	Based	on	WO	2000020021
	JΡ	200252616	57 W	Based	on	WO	2000020021

PRIORITY APPLN. INFO: US 1998-103161P 19981006; US 2001-828607 20010406